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U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

TO: NATIONAL WEATHER SERVICE (W/OH12x1)
HYDROMETEOROLOGICAL INFO CENTER
1325 EAST-WEST HIGHWAY, RM 7116
SILVER SPRING, MD 20910

HSA OFFICE: Marquette, MI

REPORT FOR (MONTH/YEAR):

October 2015

DATE: **November 17, 2015**

SIGNATURE:

Robin J. Turner, MIC

Justin Titus, Meteorologist

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).



An X inside this box indicates no flooding occurred within this Hydrologic Service Area.

October Flooding

No flooding was reported to the National Weather Service.

October Precipitation

October precipitation was generally below to well below normal.

Below is a chart of some of the larger cities in the Upper Peninsula, with monthly precipitation in inches, the amount of inches above or below normal for the month and any applicable record high or low rank.

Location	Precipitation	Above/Below	Rank	Snow	Above/Below	Rank
WFO Marquette	2.94	-0.90		1.2	-4.8	
Marquette City	2.86	-0.27		2.5	1.5	
Houghton Airport	3.19	0.20		No Data	No Data	
Ironwood	3.67	-0.31		Trace	-6.6	
Iron Mountain	2.34	-0.80		Trace	-0.3	
Manistique	3.10	-0.38		0.0	No Data	
Munising	3.12	-1.11		0.1	-1.3	
Newberry	2.74	No Data		1.2	No Data	

Other monthly precipitation totals from coop observers:

Location	Precipitation	Snow
	(inches)	(inches)
Ahmeek 1SW	2.75	0.2
Amasa (Iron County)	2.49	0.0
Atlantic Mine (Houghton County)	2.09	Trace
Baraga 7NW (Baraga County)	1.67	Trace
Big Bay (Marquette County)	2.35	0.5
Chatham (Alger County)	4.25	5.3
Clarksburg (Marquette County)	2.49	0.1
Cooks (Schoolcraft County)	3.44	0.5
Copper Harbor (Keweenaw County)	2.01	Missing
Garden Corners (Delta County)	3.04	Trace
Gladstone (Delta County)	2.41	Trace
Greenland 6N (Ontonagon County)	2.72	0.2
Gwinn (Marquette County)	2.67	0.0
Harvey (Marquette County)	Missing	Missing
Herman (Baraga County)	2.85	Trace
Houghton (Houghton County)	2.60	Trace
Jacobsville (Houghton County)	2.14	Trace
Mohawk (Keweenaw County)	3.29	0.2
Menominee (Menominee County)	Missing	Missing
Norway (Dickinson County)	Missing	Missing
Paulding (Ontonagon County)	2.64	Trace
Stambaugh (Iron County)	2.68	0.0

Drought Discussion

The November 3, 2015 release of the U.S. Drought Monitor indicated that drought conditions ranged from D1 (Moderate Drought) over north central portions of Upper Michigan to no drought over far south central Upper Michigan. For the latest drought status, please go to http://www.drought.gov.

October Temperatures

Below is a table of some of the larger cities in the Upper Peninsula, with average monthly temperature and number of degrees above or below normal for the month, and the rank of an all-time warmest or coldest month, where applicable.

Location	Temperature	Above/Below	Rank
	(degrees)		
WFO Marquette	43.8	0.6	
Marquette City	48.6	1.3	
Houghton Airport	45.6	2.2	
Ironwood	44.5	1.1	
Iron Mountain	46.8	1.8	
Manistique	47.1	1.6	
Munising	45.8	0.2	
Newberry	45.3	1.5	

October River Levels

According to the United States Geological Survey, October average streamflow was below normal (10-24 percentile) to much below normal (<10 percentile) across most of Upper Michigan.

October Products Issued

- 31 Daily River and Lake Summary
- 31 Hydrologic Summary
- 1 Hydrologic Outlook